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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/006,794	12/04/2001	Hitoshi Fukushima	9319S-000311/CPA	1876
27572	7590 10/01/2004		EXAMINER	
HARNESS, DICKEY & PIERCE, P.L.C. GHYKA, ALEXANDER			EXANDER G	
P.O. BOX 8	28 LD HILLS, MI 48303		ART UNIT	PAPER NUMBER
DEC CIVIL II	, 111 100 00 100 00 00 00 00 00 00 00 00		2812	
			DATE MAILED: 10/01/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/006,794	FUKUSHIMA ET AL.				
Office Action Summary	Examiner	Art Unit	1			
	Alexander G. Ghyka	2812	And			
The MAILING DATE of this commun Period for Reply	nication appears on the cover sheet with	the correspondence addr	ess			
A SHORTENED STATUTORY PERIOD F THE MAILING DATE OF THIS COMMUN - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this comr - If the period for reply specified above, the maximum si - Failure to reply within the set or extended period for reply Any reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). In no event, however, may a rep munication. 30) days, a reply within the statutory minimum of thirty (tatutory period will apply and will expire SIX (6) MONTH y will, by statute, cause the application to become ABAI	oly be timely filed (30) days will be considered timely. HS from the mailing date of this comm NDONED (35 U.S.C. § 133).	munication.			
Status						
1) Responsive to communication(s) file	ed on					
·— ·	2b)⊠ This action is non-final.					
<i>'</i> — ···						
Disposition of Claims						
4) ⊠ Claim(s) <u>1-30</u> is/are pending in the 4a) Of the above claim(s) <u>27-30</u> is/as 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-10 and 14-16</u> is/are rejective. 7) ⊠ Claim(s) <u>11-13 and 17-26</u> is/are object to restri	re withdrawn from consideration. cted. ected to.	ALEXANDER GHY PRIMARY EXAMIN AU 28 12 Oly	KA IER			
Application Papers			0			
	er 2001 is/are: a) \square accepted or b) \square ection to the drawing(s) be held in abeyanc g the correction is required if the drawing(s	e. See 37 CFR 1.85(a). i) is objected to. See 37 CFR	1.121(d).			
Priority under 35 U.S.C. § 119						
2. Certified copies of the priority3. Copies of the certified copies	o documents have been received. Or documents have been received in Aprile of the priority documents have been received in Aprile 17.2(a)).	plication No eceived in this National St	tage			
Attachment(s)	0 🗖	mmon (PTC 442)				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (I 		ımmary (PTO-413) /Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 of Paper No(s)/Mail Date		ormal Patent Application (PTO-1	52)			

DETAILED ACTION

Election/Restrictions

Applicant's election with traverse of Group I, Claims 1-26 in the reply filed on July 6, 2004 is acknowledged. The traversal is on the ground(s) that since the groups of claims are sufficiently related to each other an undue burden would not be placed upon the Examiner. This is not found persuasive because the groups are classified in different classes and would result in an undue burden.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-10 and 14-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Enick et al (US 6,183,815).

Enick et al disclose a method and composition for the surface treatment of metals which includes a method of self assembling a mono layer by using fluoroalkanes as claimed in Claim 7, (where "m" and "n" are zero) and compressed carbon dioxide as a solvent as required in the present Claims. See column 2, lines 15-30, column 2, line 50 to column 3, line 30, and column 3, line 60 to line 67. Moreover, Enick et al disclose the use of propanol as a solvent. See column 6, line 60 to column 7, line 15.

Furthermore, Enick discloses the use of metals as required by the present Claims. See column 8, lines 45-52.

Thus, Enick et al is shown to teach all of the features of the claims with the exception of requiring the presence of compressed liquid carbon dioxide.

One of ordinary skill in the art, at the time of the invention, would have found it obvious to arrive at the presently claimed limitations, as the use of an optional solvent, compressed carbon dioxide, for its known purpose would be within the level of ordinary skill in the art. The use of compressed carbon dioxide for its benefit as a sovent is *prima facie* obvious in view of the disclosure of Enick et al. Therefore, a *prima facie* case of obviousness is established.

Allowable Subject Matter

Claims 11-13 and 17-26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The cited prior art does not disclose or suggest the co-solvents as required in the afore mentioned claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander G. Ghyka whose telephone number is (571)

Art Unit: 2812

272-1669. The examiner can normally be reached on Monday through Thursday during general business hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John F Niebling can be reached on (571) 272-1679. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AGG September 28, 2004 ALEXANDER GHYKA
PRIMARY EXAMINED